

LIQUID FOR PERITONEAL LAVAGE

Patent Number: JP2304026
Publication date: 1990-12-17
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Requested Patent: ☐ JP2304026
Application Number: JP18890123573 18890618
Priority Number(s):
IPC Classification: A61K33/00 ; A61K9/08 ; A61K33/00
EC Classification:
Equivalents:

Abstract

PURPOSE: To provide a safe liquid for peritoneal lavage, containing $\text{Na}^{<+>}$, $\text{Ca}^{<++>}$, $\text{Mg}^{<++>}$, $\text{Cl}^{<->}$ and organic acid anion at specific concentrations, having an osmotic pressure falling within a specific range and causing minimized water-absorption and disturbance of the balance of serum electrolytes.

CONSTITUTION: The objective peritoneal lavaging liquid contains 125 to 160mEq/l of $\text{Na}^{<+>}$, 1 to 6mEq/l of $\text{Ca}^{<++>}$, 0.5 to 2mEq/l of $\text{Mg}^{<++>}$, 80 to 120mEq/l of $\text{Cl}^{<->}$ and 10 to 60mEq/l of anions of organic acid (e.g. acetic acid, lactic acid or citric acid) and has an osmotic pressure of 285 to 320mOsm/kg. The liquid is further compounded with $\leq 5\text{mEq/l}$ of $\text{K}^{<+>}$, an osmotic pressure regulator to raise the osmotic pressure to be slightly higher than the osmotic pressure of blood (e.g. sugar or low-molecular polyhydric alcohol) and an adhesion-preventing agent (e.g. chitosan or sodium alginate) to prevent the post-operative intraabdominal adhesion.

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